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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,540	11/14/2003	Yunbo Cao	M61.12-0546	2537

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EXAMINER

HWANG, JOON H

ART UNIT	PAPER NUMBER
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2166

MAIL DATE	DELIVERY MODE
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07/12/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Interview Summary

Application No.

10/714,540

Applicant(s)

CAO ET AL.

Examiner

Joon H. Hwang

Art Unit

2166

All participants (applicant, applicant's representative, PTO personnel):

(1) Joon H. Hwang.

(3) _____

(2) Chris J. Volkmann (Reg. No. 60,349).

(4) _____

Date of Interview: 29 June 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: _____

Claim(s) discussed: 1, 11 and 21.

Identification of prior art discussed: See Continuation Sheet.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Discussed differences between the prior arts and the invention of the current application in light of a proposed amendment. Claim 1 of the proposed amendment with the determining a file type for the document step would likely overcome the claim rejection.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.


Examiner's signature, if required

Continuation of Identification of prior art discussed: Buyukkokten et al. ("Seeing the Whole in Parts: Text Summarization for Web Browsing on Handheld Devices", WWW10, May 2-5, 2001, Hong Kong), Malone et al. (U.S. Publication No. 2002/0038348), and Chen et al. ("Detecting Web Page Structure for Adaptive Viewing on Small Form Factor Devices, WWW2003, May 20-24, 2003, Budapest Hungary).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor : Cao et al.

Appln. No.: 10/714,540

Filed : November 14, 2003

For : METHOD AND APPARATUS FOR
BROWSING DOCUMENT CONTENT

Docket No.: M61.12-0546

Confirmation No.: 2537

Group Art Unit: 2171

Examiner: Joon H. Hwang

TELEFACSIMILE TRANSMISSION TO
EXAMINER JOON H. HWANG4 PAGES - INCLUDING COVER PAGE
(Please Do Not Enter Into File)DIRECT FACSIMILE
(571) 273-4036

Sir:

Thank you for your consideration. As discussed during our telephone conversation on June 27, 2007, please find attached proposed claim amendments to be discussed during our interview to take place June 29, 2007 at 4:00 EST.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

Date:

6/27/07

By:

Chris J. Volkmann

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PROPOSED CLAIM AMENDMENTS

1. (currently amended) A computer-implemented method comprising:

receiving a document;

~~determining a file type for the document;~~

segmenting the document into blocks of text as a function of outline information

if outline information is associated with the document;

if outline information is not associated with the document, then segmenting the document into blocks of text as a function of tags if tags are associated with the document;

if outline information and tags are not associated with the document, then performing;

a) identifying potential segmentation points in the document as a function of the file type based on text in the document; and

b) segmenting the text into blocks of text based on the potential segmentation points and on a similarity of text adjacent the potential segmentation points; ~~segmenting the document into blocks of text as a function of the segmentation points and~~

determining if the blocks of text should be further segmented based on a size of the blocks of text;

if the blocks should be further segmented, then performing:

a) identifying potential segmentation points in the blocks based on text in the blocks; and

b) segmenting the blocks into sub-blocks of text based on the potential segmentation points and on a similarity of text adjacent the potential segmentation points;

generating at least one keyword and a summary for the document that is indicative of blocks of text in the document and generating at least one keyword and summary for any sub-blocks in the text.

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11. (currently amended) A computer-implemented method comprising:

- retrieving a plurality of documents;
- determining a file type for each of the plurality of documents;
- identifying segmentation points in each of the plurality of documents as a function of the file type;
- segmenting each of the plurality of documents into blocks of text as a function of the segmentation points;
- determining at least one keyword and a summary for each of the plurality of documents that is indicative of multiple blocks of text in each of the plurality of documents;
- providing an output of the at least one keyword and summary for each of the plurality of documents; and
- rendering a list of the plurality of documents including the at least one keyword and summary associated with each of the plurality of documents;
- receiving a user input indicative of a selection of one of the plurality of documents;
- accessing the blocks of text in the selected document;
- determining at least one keyword and a summary for each individual block of text in the selected document; and
- rendering a list indicative of the blocks of text in the selected document, wherein the list includes the at least one keyword and summary for each individual block of text in the selected document.

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21. (currently amended) A computer-readable storage medium having instructions which, when implemented on a computer, handle documents, the instructions comprising:

a document retrieval module adapted to retrieve a plurality of documents from at least one document source based on a document query request received from a mobile device;

a document outline parsing module adapted to: ~~determine a file type of each of the plurality of documents,~~

segment the document into blocks of text as a function of outline information if outline information is associated with the document;

if outline information is not associated with the document then segment the document into blocks of text as a function of the tags if tags are associated with the document;~~identify segmentation points as a function of the file type, segment the plurality of documents into blocks of text based on the file type;~~

if outline information and tags are not associated with the document, then establish potential segmentation points in the document blocks of text as a function of the text in the document, and segment the document into blocks of text into sub-blocks of text if adjacent paragraphs surrounding the potential segmentation points are dissimilar;

identify sub-blocks of text from the blocks of text if adjacent paragraphs in the blocks are dissimilar; and

form a tree structure indicative of the blocks and sub-blocks; and

a summarization module adapted to generate at least one keyword and a summary for each block and sub-block in each of the plurality of documents based on the tree structure to selectively render the at least one keyword, summary, blocks and sub-blocks of text as a function of input to the mobile device.